## WWLLN Lightning Dataset, Version R0 (20 April 2020)

World-Wide Lightning Location Network (WWLLN) data files are available for August-October of both 2018 and 2019.

## Format of WWLLN data files:

```
Files are ascii text files labeled with the date and time of the data such as A20100202.loc for data from 2010/02/02. All data in UTC sample: 2010/02/02,15:00:00.215527, -6.6425, 158.7155, 16.1, 10 2010/02/02,15:00:00.672314, -0.7045, 24.8195, 15.7, 10 2010/02/02,15:00:01.063952, -6.6852, 158.8178, 10.4, 8 2010/02/02,15:00:01.293111, 33.7345, 165.5077, 11.2, 6 2010/02/02,15:00:02.220196, 32.9036, 164.0589, 6.7, 7 2010/02/02,15:00:02.257362, 32.8227, 164.0399, 8.5, 6 ....

Year/Mo/Da,Hr:Mn:Sec.fract, Lat , Long , Resid,Nsta where: Date and time are in UTC Lat, Long in Fractional Degrees
Resid is the residual fit error in microseconds (always < 30 microseconds)
```

Nsta is the number of WWLLN stations which detected the stroke (always > 5)

These data are archived at NASA Marshall Space Flight Center. If you wish to obtain these data, please contact the CAMP2Ex/PISTON lead for WWLLN, Timothy Lang (<u>timothy.j.lang@nasa.gov</u>). Due to the copyright rules of these lightning data, use of them in a presentation or publication \*requires\* adding Dr. Lang as a coauthor.